PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY					
To: JOHN C. VASSIL MORGAN & FINNEGAN, LLP	PCT				
345 PARK AVENUE NEW YORK, NY 10154	WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY				
	(PCT Rule 43bis.1)				
	Date of mailing (day/month/year) 30 SEP 2004				
Applicant's or agent's file reference 4424-4000PC	FOR FURTHER ACTION See paragraph 2 below				
International application No. International filing date (day/month/year) Priority date (day/month/year)				
PCT/US04/01472 15 January 2004 (15.01.2	2004) 16 January 2003 (16.01.2003)				
International Patent Classification (IPC) or both national classification	ion and IPC				
IPC(7): A61B 10/00; B32B 5/16; G01N 33/544 and US Cl.: 428/4	02, 403, 407; 424/9.6, 489, 490; 436/64, 512, 528, 532, 535				
Applicant					
S1. JOHNS UNIVERSITY NEW YORK					
This opinion contains indications relating to the following item:	s:				
Box No. I Basis of the opinion					
Box No. II Priority					
Box No. III Non-establishment of opinion with reg	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability				
Box No. IV Lack of unity of invention	Lack of unity of invention				
	Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement				
Box No. VI Certain documents cited	Certain documents cited				
Box No. VII Certain defects in the international app	Certain defects in the international application				
Box No. VIII Certain observations on the internation	Certain observations on the international application				
2. FURTHER ACTION					
If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.					
If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.					
For further options, see Form PCT/ISA/220.					
3. For further details, see notes to Form PCT/ISA/220.					
Name and mailing address of the ISA/ US	Authorized officer				
Mail Stop PCT, Attn: ISA/US Commissioner for Patents	H. T. Le				
P.O. Box 1450 Alexandria, Virginia 22313-1450	Parategal Sports.				
reconstin, rugina and to the	Telephone No. 571-272-1511				

Alexandria, Virginia 22313-1450
Facsimile No. (703) 305-3230
Form PCT/ISA/237 (cover sheet) (January 2004)

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/US04/01472

Box No	o. I Basis of this opinion
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1. With a it was	regard to the language, this opinion has been established on the basis of the international application in the language in which filed, unless otherwise indicated under this item.
	This opinion has been established on the basis of a translation from the original language into the following language which is the language of a translation furnished for the purposes of international search (under Rules 12.3 and 23.1(b)).
2. With claime	regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the ad invention, this opinion has been established on the basis of:
a.	type of material
	a sequence listing
	table(s) related to the sequence listing
b.	format of material
	in written format
	in computer readable form
c.	time of filing/furnishing
	contained in international application as filed.
	filed together with the international application in computer readable form.
	furnished subsequently to this Authority for the purposes of search.
3. 🗌	In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
4. Additi	onal comments:
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WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/US04/01472

Box No. V Reasoned statement under Rule 43 bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement					
1. Statement					
Novelty (N)	Claims	NONE	YES		
Tiereng (Liv)	Claims		NONO		
70	Clains.	NONE	YES		
Inventive step (IS)	Claims	NONE 1-19	NO NO		
					
Industrial applicability (IA)	Claims	1-19	YES		
	Claims	NONE	NO		
2. Citations and explanations:					
Claims 1-19 lack novelty under PCT Article 33(2) a	as being anticip	ated by Chandler et al (US 6,268,	,222).		
Chandler teaches polymeric nanoparticles which are stained with different fluorescent dyes. See abstract; col. 3, lines 9-15; col. 4, lines 3-9. Cyanine dyes are taught at col. 4, lines 18-20 as most preferred. Taggants are taught at col. 4, lines 45-50. For method see examples. For cancer treatment see col. 24, lines 34-42 where manufacturing drugs using the nanoparticles is suggested.					
Claims 1 and 5 lack novelty under PCT Article 33(2) Feldheim et al (US 6,602,932),	2) as being anti	cipated by Henrichs et al (US 6,4	24,857), Baker (US 6,471,968),		
Claims 1 and 5 are so broad that any polymeric nan meet the claim limitations.	oparticles that	can bound to any substance (not r	necessarily fluorescent dye) will		
Henrichs: Teaches polymeric nanoparticles (nanoliposomes) attached to a fluorescent dye (col. 8, lines 8-18).					
Baker: Teaches nanosized dendrimer (polymeric) that can bind to many substances.					
Feldheim et al: Teaches polymeric nanoparticles with a shell on their surface which means that the particles are capable of entrapping a substance. See abstract.					
Claims 1-19 meet the criteria set out in PCT Article 33(4), and thus the industrial applicability because the subject matter claimed can be made or used in the pharmaceutical industry.					